



A lifetime of specialist care

Intravenous antibiotics

Amikacin	IV	30 mg/kg od (max 1.5g od)	Infuse over 30 mins. Levels at 23 hours after 1 st dose (ie before 2 nd dose) must be < 3mg/l. Repeat at least every 7 days. If level raised, OMIT next dose and re-measure, reduce dose by 20%. See section 6.2a	Aminoglycoside	Only use if resistant to tobramycin or gentamicin. Dilution: 0.9% sodium chloride. Used for initiation of NTM treatment – <i>consultant decision</i> Audiology at baseline.
Aztreonam	IV	50 mg/kg tds (Max 2 gms tds).	No gram-positive activity.	Monobactam	Usual reconstitution: water for injections.
Cefoxitin	IV	50mg/kg tds (Max 12g /day).	Can give as a slow bolus or infusion over 30 minutes.	Cephalosporin	Reserved for treatment of NTM – <i>consultant decision</i> . See appendix 2. NOT active against <i>P aeruginosa</i> .
Ceftazidime	IV	50 mg/kg tds (Max 9 gms /day).	Unexpected hypersensitivity on first exposure.	Cephalosporin	Usual reconstitution: water for injections.
Colistin	IV	20,000-25,000 units/kg tds . Long term use at home:	Slow infusion over 30 mins. Max concentration is 40,000 units/ml.	Polymyxin	Not a first line agent. Avoid using with IV amphotericin (renal toxicity).

		Use above total daily dose divided into 2 doses i.e. (30,000-38,000 units/kg bd)	<p>Boluses can be used for Portacaths only – not PICC lines. <12 yrs: dilute to 90,000 units/ml. ≥12 yrs: dilute to 200,000 units/ml.</p> <p>Measure renal function once a week.</p>		Usual reconstitution: 0.9% sodium chloride
Co-trimoxazole	IV	<p>>6 weeks old: 60 mg/kg BD</p> <p>(no upper dose limit)</p>	Infuse over 60-90 minutes.		<p>Useful for <i>A xylosoxidans</i> & <i>S maltophilia</i> – <i>consultant decision</i></p> <p>Maintain adequate fluid intake.</p> <p>Treatment should be stopped if blood disorders or rashes develop. Advise patient/carer to report all rashes, sore throats and fevers. Avoid in severe liver disease.</p>
Linezolid	IV	<12 years: 10mg/kg	Infuse over 30 – 120 mins. Monitor FBC	Oxazolidinone	Use oral route wherever possible. Otherwise convert to

		(max 600mg) tds ≥12 years: 600mg bd	weekly. Consultant decision only as courses >28 days leads to risk of optic neuropathy so patients having alternate monthly Linezolid should have ophthalmic exam before starting first course and every 2 months after. Where possible patients should be warned to immediately report any visual changes, regardless of treatment duration.		oral route as soon as clinically indicated. Last line for <i>MRSA</i> or <i>S aureus</i> where patients have not responded to conventional agents.
Meropenem	IV	20 – 40 mg/kg tds. (Max 2g tds)	Headache common.	Carbapenem	Usual dilution: water for injections.
Piperacillin / Tazobactam	IV	>1 month: 90mg/kg qds (Max 4.5g qds)		Ureidopenicillin	Consultant decision. Not used unless we are desperate due to rashes and hypersensitivity.
Teicoplanin	IV	>1 month 10mg/kg (max 400 mg) 12 hourly for 3	Can give as a slow bolus or infusion over 30 minutes	Glycopeptide	<i>Consultant decision</i>

		doses (loading dose) followed 24 hours later by 10mg/kg (max 400 mg) od.			
Temocillin	IV	25mg/kg bd (Max dose 2g bd)	Slow bolus over 3 – 5 minutes	Penicillin	<i>Consultant decision.</i> 3 rd line Dilution: water
Tigecycline	IV	8 – 11 years: 1.2mg/kg (max 50mg) bd ≥12 years: 100mg loading dose then 50mg bd, reduced to 50mg od if not tolerated	Infusion over 60 minutes. Nausea/vomiting a real problem. Use regular oral Ondansetron – ensure that patient receives anti-emetics before commencing treatment.	Tetracycline	Before using in children <12 years old, please confirm with dental professional all 'adult' teeth in place (due to discolouration of growing teeth/bone). Reserved for treatment of NTM. See appendix 2. <i>consultant decision.</i>
Tobramycin	IV	10mg/kg/day in ONE DOSE (Max 660mg/day)	Infuse over 30 mins. Levels at 23 hours after 1 st dose (ie before 2 nd dose) must be <1 mg/l) Repeat at	Aminoglycoside	Usual dilution: 0.9% sodium chloride. DO NOT PRESCRIBE THIS DOSE FOR NON-

		If previous course had raised trough level reduce dose by 20%	least every 7 days. If level raised, OMIT next dose and re-measure. See section 6.2a		CF CHILDREN.
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We **RARELY** use:

- i) Imipenem - too many side effects and spectrum no different from meropenem.
- ii) Piperacillin/tazobactam (Tazocin®, piptazobactam) is rarely used because there is a high incidence of allergy.